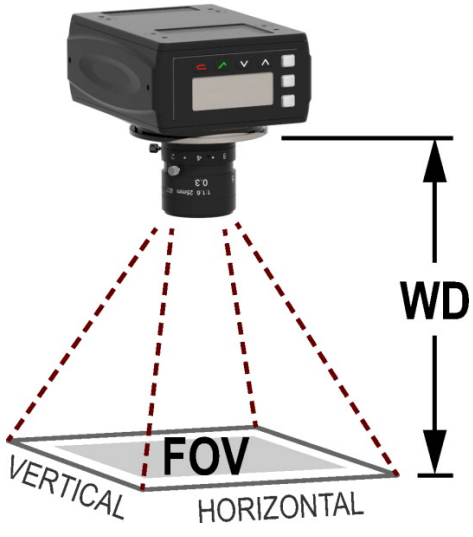
WVGA Lens Charts

This paper offers information useful for selecting a C-mount lens for the VE Series WVGA smart camera.

Working Distance and Field of View

The two main variables involved when discussing a camera's lens choice are the **Working Distance** and the **Field of View** size. The Working Distance, or WD, is the distance from the camera to the target object. In the case of this collection of lens charts, the Working Distance is measured from the front surface of the threaded lens cover mount. The distance is not measured from the end of the lens because different lenses from different manufacturers, even with the same focal length, can vary in length.



The Field of View, or FOV, is the real world size of the picture the camera takes. This can also be broken down into a horizontal FOV size and a vertical FOV size. Note that the picture taken by a VE Series vision sensor is not square. The imager used in the WVGA VE sensor is 752 × 480 pixels, making a rectangular image where the vertical FOV is about 64% the size of the horizontal FOV.

The Working Distance and Field of View sizes are related by linear equations determined by the focal length of the lens. Choosing the correct lens for a given application might be a matter of selecting the desired size of the FOV, then seeing which of the options for focal length result in a good fit for camera Working Distance. The situation might also be reversed, where the desired mounting location of the camera is known (and thus the Working Distance is fixed) and the various focal length lenses give a range of FOV sizes to choose from. In all cases, only one of these two variables may be freely selected. The second variable then becomes a function of the first. This is the reason why we offer a broad range of lens focal lengths—to provide as many options as possible to suit different WD/FOV size requirements.

Multiple Manufacturers and Format Size

Banner does not manufacture any C-mount lenses used by our vision sensors. Instead we offer a range of lenses from different suppliers.

Imager Resolution: 752 px (H) × 480 px (V)
Pixel Size: 5.3 µm × 5.3 µm
Image Size: 4.1 mm (H) × 2.6 mm (V), 4.9 mm (diagonal)

Off the Charts

In the pages that follow, graphical views of the Working Distance versus Horizontal FOV relationships are shown, out to a maximum working distance of 1 meter. These graphs offer a quick and easy way to estimate the FOV size for a given Working Distance and lens focal length. Also provided are two tables with entries out to 1.5 meters. The first shows FOV size as a function of Working Distance and the

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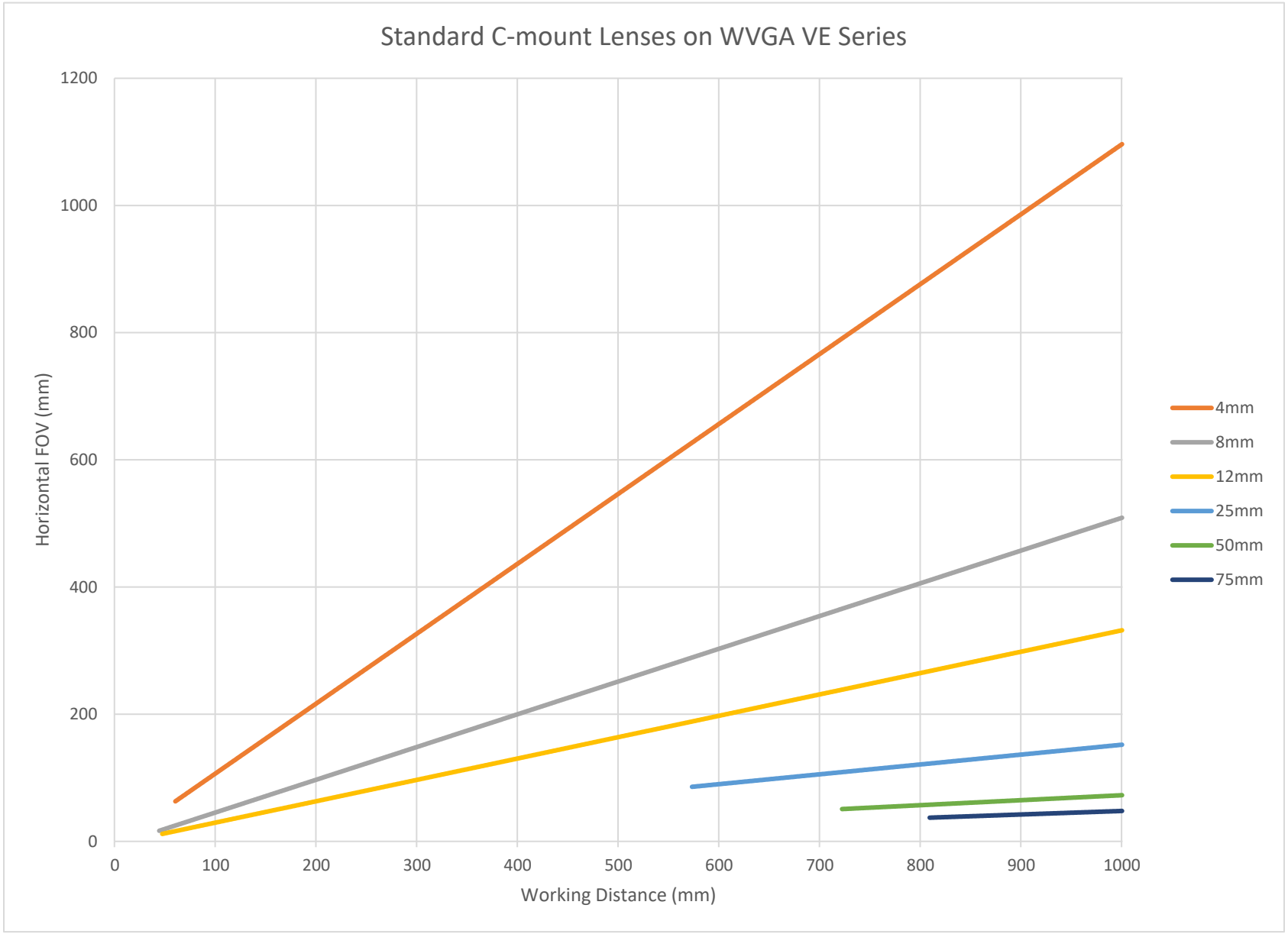
second shows Working Distance as a function of FOV size. The mathematical equations that describe the relationship between these two variables are also provided, allowing for calculations beyond what the chart and tables offer.

Each lens has a natural minimum Working Distance. If a camera using this lens were to move closer to the target than this minimum distance, the image would be out of focus and the lens alone would not be able to fix it. This is where extension tubes and shims are used. Extension tubes allow a lens to come into focus at a Working Distance closer than the minimum. The relationship between Working Distance and FOV size remains in effect as extension tubes are added, and so extension tubes are usually used to generate very small FOVs. A microscope is basically a high focal length lens with a large amount of extension tubes applied.

Standard Resolution C-mount Lenses on WVGA VE Series



Standard C-mount Lenses on WVGA VE Series, FOV as a function of WD Chart

	FOV (mm)																							
WD (mm)	4mm			8mm			12mm			25mm			50mm			75mm							
Minimum	*61*	*x*	*39*	*16*	*x*	*10*	*11*	*x*	*7*	*85*	*x*	*54*	*51*	*x*	*33*	*37*	*x*	*24*						
	@ 60mm			*@ 44mm*			*@ 47mm*			*@ 573mm*			*@ 722mm*			*@ 809mm*							
20																								
40																								
60	63	x	40	25	x	16	16	x	10															
80	85	x	54	35	x	22	23	x	15															
100	107	x	68	46	x	29	30	x	19															
120	129	x	82	56	x	36	36	x	23															
140	151	x	96	66	x	42	43	x	27															
160	173	x	110	76	x	49	50	x	32															
180	195	x	124	87	x	55	56	x	36															
200	217	x	138	97	x	62	63	x	40															
220	239	x	152	107	x	68	70	x	45															
240	261	x	167	118	x	75	77	x	49															
260	283	x	181	128	x	82	83	x	53															
280	305	x	195	138	x	88	90	x	57															
300	327	x	209	148	x	95	97	x	62															
320	349	x	223	159	x	101	103	x	66															
340	371	x	237	169	x	108	110	x	70															
360	393	x	251	179	x	115	117	x	75															
380	415	x	265	190	x	121	124	x	79															
400	437	x	279	200	x	128	130	x	83															
420	459	x	293	210	x	134	137	x	87															
440	481	x	307	221	x	141	144	x	92															
460	503	x	321	231	x	147	151	x	96															
480	525	x	335	241	x	154	157	x	100															
500	547	x	349	251	x	161	164	x	105															
520	569	x	363	262	x	167	171	x	109															
540	591	x	377	272	x	174	177	x	113															
560	613	x	391	282	x	180	184	x	118															
580	635	x	405	293	x	187	191	x	122	87	x	55												
600	657	x	419	303	x	193	198	x	126	90	x	57												
620	679	x	433	313	x	200	204	x	130	93	x	59												
640	701	x	447	324	x	207	211	x	135	96	x	61												
660	723	x	461	334	x	213	218	x	139	99	x	63												
680	745	x	475	344	x	220	224	x	143	102	x	65												
700	767	x	489	354	x	226	231	x	148	105	x	67												
720	789	x	503	365	x	233	238	x	152	109	x	69												
740	811	x	517	375	x	239	245	x	156	112	x	71	52	x	33									
760	833	x	531	385	x	246	251	x	160	115	x	73	54	x	34									
780	855	x	545	396	x	253	258	x	165	118	x	75	55	x	35									
800	877	x	559	406	x	259	265	x	169	121	x	77	57	x	36									
820	899	x	574	416	x	266	271	x	173	124	x	79	59	x	37	38	x	24						
840	920	x	588	427	x	272	278	x	178	127	x	81	60	x	38	39	x	25						
860	942	x	602	437	x	279	285	x	182	130	x	83	62	x	39	40	x	26						
880	964	x	616	447	x	285	292	x	186	133	x	85	63	x	40	41	x	26						
900	986	x	630	457	x	292	298	x	190	136	x	87	65	x	41	42	x	27						
920	1008	x	644	468	x	299	305	x	195	140	x	89	66	x	42	43	x	28						
940	1030	x	658	478	x	305	312	x	199	143	x	91	68	x	43	45	x	28						
960	1052	x	672	488	x	312	319	x	203	146	x	93	69	x	44	46	x	29						
980	1074	x	686	499	x	318	325	x	208	149	x	95	71	x	45	47	x	30						
1000	1096	x	700	509	x	325	332	x	212	152	x	97	73	x	46	48	x	31						
1020	1118	x	714	519	x	331	339	x	216	155	x	99	74	x	47	49	x	31						
1040	1140	x	728	530	x	338	345	x	220	158	x	101	76	x	48	50	x	32						
1060	1162	x	742	540	x	345	352	x	225	161	x	103	77	x	49	51	x	33						
1080	1184	x	756	550	x	351	359	x	229	164	x	105	79	x	50	52	x	33						
1100	1206	x	770	560	x	358	366	x	233	167	x	107	80	x	51	53	x	34						
1120	1228	x	784	571	x	364	372	x	238	171	x	109	82	x	52	54	x	35						
1140	1250	x	798	581	x	371	379	x	242	174	x	111	84	x	53	56	x	35						
1160	1272	x	812	591	x	377	386	x	246	177	x	113	85	x	54	57	x	36						
1180	1294	x	826	602	x	384	392	x	250	180	x	115	87	x	55	58	x	37						
1200	1316	x	840	612	x	391	399	x	255	183	x	117	88	x	56	59	x	38						
1220	1338	x	854	622	x	397	406	x	259	186	x	119	90	x	57	60	x	38						
1240	1360	x	868	633	x	404	413	x	263	189	x	121	91	x	58	61	x	39						
1260	1382	x	882	643	x	410	419	x	268	192	x	123	93	x	59	62	x	40						
1280	1404	x	896	653	x	417	426	x	272	195	x	125	95	x	60	63	x	40						
1300	1426	x	910	663	x	423	433	x	276	198	x	127	96	x	61	64	x	41						
1320	1448	x	924	674	x	430	439	x	281	202	x	129	98	x	62	66	x	42						
1340	1470	x	938	684	x	437	446	x	285	205	x	131	99	x	63	67	x	43						
1360	1492	x	952	694	x	443	453	x	289	208	x	133	101	x	64	68	x	43						
1380	1514	x	966	705	x	450	460	x	293	211	x	135	102	x	65	69	x	44						
1400	1536	x	981	715	x	456	466	x	298	214	x	137	104	x	66	70	x	45						
1420	1558	x	995	725	x	463	473	x	302	217	x	139	105	x	67	71	x	45						
1440	1580	x	1009	735	x	469	480	x	306	220	x	141	107	x	68	72	x	46						
1460	1602	x	1023	746	x	476	487	x	311	223	x	143	109	x	69	73	x	47						
1480	1624	x	1037	756	x	483	493	x	315	226	x	145	110	x	70	74	x	47						
1500	1646	x	1051	766	x	489	500	x	319	229	x	146	112	x	71	75	x	48						

Standard C-mount Lenses on WVGA VE Series, WD as a function of FOV Chart

			WD (mm)					
FOV (mm)			4mm	8mm	12mm	25mm	50mm	75mm
		Minimum	61 x 39 @ 60mm	16 x 10 @ 44mm	11 x 7 @ 47mm	85 x 54 @ 573mm	51 x 33 @ 722mm	37 x 24 @ 809mm
20	x	13		50	72			
40	x	26		89	131			858
60	x	38		128	191		839	1220
80	x	51	75	167	250		1094	1582
100	x	64	94	206	310	665	1350	1943
120	x	77	112	245	369	794	1605	2305
140	x	89	130	283	429	923	1861	2667
160	x	102	148	322	488	1052	2116	3028
180	x	115	166	361	548	1181	2372	3390
200	x	128	185	400	607	1310	2627	3752
220	x	140	203	439	667	1439	2882	4113
240	x	153	221	478	726	1568	3138	4475
260	x	166	239	517	786	1697	3393	4837
280	x	179	257	555	845	1826	3649	5198
300	x	191	276	594	905	1955	3904	5560
320	x	204	294	633	964	2084	4160	5922
340	x	217	312	672	1024	2213	4415	6283
360	x	230	330	711	1083	2342	4670	6645
380	x	243	348	750	1143	2471	4926	7007
400	x	255	367	788	1202	2600	5181	7368
420	x	268	385	827	1262	2729	5437	7730
440	x	281	403	866	1322	2858	5692	8092
460	x	294	421	905	1381	2987	5948	8453
480	x	306	439	944	1441	3116	6203	8815
500	x	319	458	983	1500	3245	6458	9177
520	x	332	476	1022	1560	3374	6714	9538
540	x	345	494	1060	1619	3503	6969	9900
560	x	357	512	1099	1679	3632	7225	10262
580	x	370	530	1138	1738	3761	7480	10623
600	x	383	548	1177	1798	3890	7736	10985
620	x	396	567	1216	1857	4019	7991	11347
640	x	409	585	1255	1917	4148	8246	11708
660	x	421	603	1293	1976	4277	8502	12070
680	x	434	621	1332	2036	4406	8757	12432
700	x	447	639	1371	2095	4536	9013	12793
720	x	460	658	1410	2155	4665	9268	13155
740	x	472	676	1449	2214	4794	9524	13517
760	x	485	694	1488	2274	4923	9779	13878
780	x	498	712	1526	2333	5052	10034	14240
800	x	511	730	1565	2393	5181	10290	14602
820	x	523	749	1604	2452	5310	10545	14963
840	x	536	767	1643	2512	5439	10801	15325
860	x	549	785	1682	2572	5568	11056	15687
880	x	562	803	1721	2631	5697	11312	16048
900	x	574	821	1760	2691	5826	11567	16410
920	x	587	840	1798	2750	5955	11822	16772
940	x	600	858	1837	2810	6084	12078	17133
960	x	613	876	1876	2869	6213	12333	17495
980	x	626	894	1915	2929	6342	12589	17857
1000	x	638	912	1954	2988	6471	12844	18218
1020	x	651	931	1993	3048	6600	13100	18580
1040	x	664	949	2031	3107	6729	13355	18942
1060	x	677	967	2070	3167	6858	13610	19303
1080	x	689	985	2109	3226	6987	13866	19665
1100	x	702	1003	2148	3286	7116	14121	20026
1120	x	715	1021	2187	3345	7245	14377	20388
1140	x	728	1040	2226	3405	7374	14632	20750
1160	x	740	1058	2264	3464	7503	14888	21111
1180	x	753	1076	2303	3524	7632	15143	21473
1200	x	766	1094	2342	3583	7761	15398	21835
1220	x	779	1112	2381	3643	7890	15654	22196
1240	x	791	1131	2420	3702	8019	15909	22558
1260	x	804	1149	2459	3762	8148	16165	22920
1280	x	817	1167	2498	3822	8277	16420	23281
1300	x	830	1185	2536	3881	8406	16676	23643
1320	x	843	1203	2575	3941	8536	16931	24005
1340	x	855	1222	2614	4000	8665	17186	24366
1360	x	868	1240	2653	4060	8794	17442	24728
1380	x	881	1258	2692	4119	8923	17697	25090
1400	x	894	1276	2731	4179	9052	17953	25451
1420	x	906	1294	2769	4238	9181	18208	25813
1440	x	919	1313	2808	4298	9310	18464	26175
1460	x	932	1331	2847	4357	9439	18719	26536
1480	x	945	1349	2886	4417	9568	18974	26898
1500	x	957	1367	2925	4476	9697	19230	27260

Standard C-mount Lens equations for VE Series WVGA

H = horizontal FOV size, W = working distance



4 mm lens

Banner model: LCF04 (p/n 68884)

Marshall Electronics model: V-4504ML

1/3-inch format, no filter, fixed iris f/2.5, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 1.099 × W – 3 (minimum W ~ 60 mm)

W(H), mm

W = (H + 3)/1.099 (minimum H ~ 61 mm)

NOTE: Banner recommends using a 0.25 mm spacer (LEKS)



8 mm lens

Banner model: LCF08 (p/n 57298)

Azure Photonics model: AZURE-0813F

½-inch format, no filter, fixed iris f/1.3, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.515 × W – 5.97 (minimum W ~ 44 mm)

W(H), mm

W = (H + 5.97)/0.515 (minimum H ~ 16 mm)



12 mm lens

Banner model: LCF12 (p/n 57299)

Marshall Electronics model: V-4512

1/3-inch format, no filter, fixed iris f/2.0, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.336 × W – 4.04 (minimum W ~ 47 mm)

W(H), mm

W = (H + 4.04)/0.336 (minimum H ~ 11 mm)



25mm lens

Banner model: LCF25R (p/n 68885)

Goyo Optical model: GMG42514C

1-inch format, 37.5 mm filter, min f/1.4, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.155 × W – 3 (minimum W ~ 573 mm)

W(H), mm

W = (H + 3)/0.155 (minimum H ~ 85 mm)



50mm lens

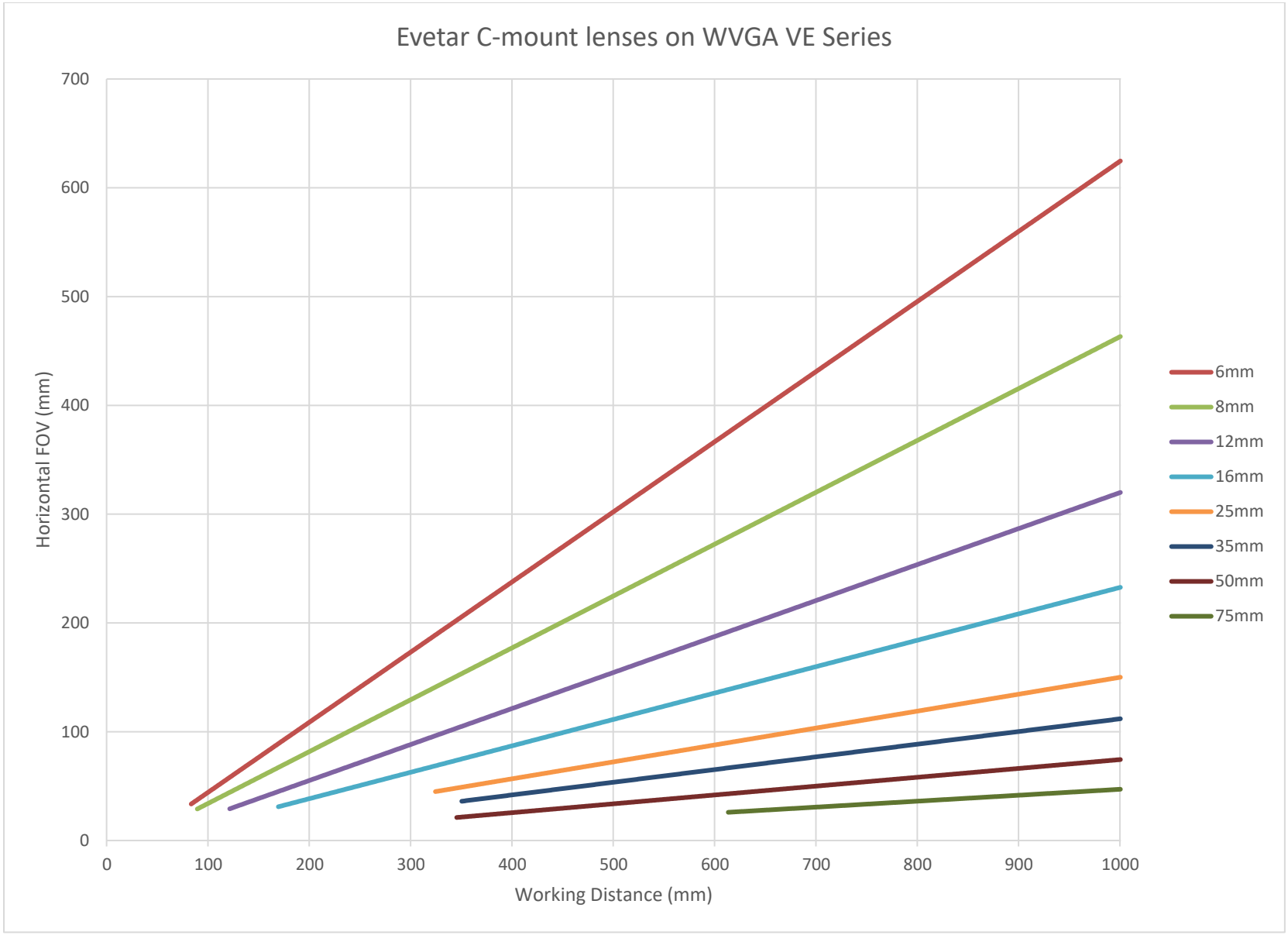
Banner model: LCF50L2R (p/n 68888)
Goyo Optical model: GMG45018MCN
1-inch format, 40.5 mm filter, min f/1.8, requires LHWK-1 set screws
H(W), mm
H = 0.0783 × W – 5.693 (minimum W ~ 722 mm)
W(H), mm
W = (H + 5.693)/0.0783 (minimum H ~ 51 mm)



75mm lens

Banner model: LCF75LR (p/n 70545)
Goyo Optical model: GMG47518MCN
1-inch format, 46 mm filter, min f/1.8, does not fit with a sealed lens cover
H(W), mm
H = 0.055 × W – 7.47 (minimum W ~ 809 mm)
W(H), mm
W = (H + 7.47)/0.055 (minimum H ~ 37 mm)

Evetar C-mount Lenses on WVGA VE Series



Evetar C-mount Lenses on WVGA VE Series, FOV as a function of WD Chart

| | FOV (mm) | | |

Evetar C-mount Lenses on WVGA VE Series, WD as a function of FOV Chart

FOV (mm)			WD (mm)																					
			6mm			8mm			12mm			16mm			25mm			35mm			50mm			75mm		
		Minimum	34	x	22	29	x	19	30	x	19	31	x	20	45	x	29	36	x	23	21	x	13	26	x	17
			@ 83mm			@ 89mm			@ 121mm			@ 169mm			@ 324mm			@ 350mm			@ 345mm			@ 613mm		
20	x	13																							
40	x	26	93			112			154			206						383			577			870		
60	x	38	124			154			214			288			421			555			823			1235		
80	x	51	155			196			275			371			549			726			1069			1601		
100	x	64	186			238			335			453			678			898			1315			1967		
120	x	77	217			280			396			536			806			1069			1561			2332		
140	x	89	248			322			456			618			935			1241			1807			2698		
160	x	102	279			364			516			700			1064			1413			2053			3064		
180	x	115	310			406			577			783			1192			1584			2299			3429		
200	x	128	341			448			637			865			1321			1756			2545			3795		
220	x	140	372			490			698			948			1450			1927			2791			4161		
240	x	153	403			532			758			1030			1578			2099			3037			4526		
260	x	166	434			574			819			1112			1707			2270			3283			4892		
280	x	179	465			616			879			1195			1835			2442			3529			5257		
300	x	191	496			657			940			1277			1964			2613			3775			5623		
320	x	204	527			699			1000			1360			2093			2785			4021			5989		
340	x	217	558			741			1061			1442			2221			2956			4267			6354		
360	x	230	589			783			1121			1524			2350			3128			4513			6720		
380	x	243	620			825			1182			1607			2478			3299			4759			7086		
400	x	255	651			867			1242			1689			2607			3471			5005			7451		
420	x	268	683			909			1302			1772			2736			3642			5251			7817		
440	x	281	714			951			1363			1854			2864			3814			5497			8182		
460	x	294	745			993			1423			1936			2993			3985			5743			8548		
480	x	306	776			1035			1484			2019			3122			4157			5989			8914		
500	x	319	807			1077			1544			2101			3250			4328			6235			9279		
520	x	332	838			1119			1605			2184			3379			4500			6481			9645		
540	x	345	869			1161			1665			2266			3507			4672			6727			10011		
560	x	357	900			1203			1726			2348			3636			4843			6973			10376		
580	x	370	931			1245			1786			2431			3765			5015			7219			10742		
600	x	383	962			1287			1847			2513			3893			5186			7465			11108		
620	x	396	993			1329			1907			2596			4022			5358			7711			11473		
640	x	409	1024			1371			1968			2678			4151			5529			7957			11839		
660	x	421	1055			1413			2028			2761			4279			5701			8203			12204		
680	x	434	1086			1455			2088			2843			4408			5872			8449			12570		
700	x	447	1117			1497			2149			2925			4536			6044			8695			12936		
720	x	460	1148			1539			2209			3008			4665			6215			8941			13301		
740	x	472	1179			1580			2270			3090			4794			6387			9187			13667		
760	x	485	1210			1622			2330			3173			4922			6558			9433			14033		
780	x	498	1241			1664			2391			3255			5051			6730			9679			14398		
800	x	511	1272			1706			2451			3337			5179			6901			9925			14764		
820	x	523	1303			1748			2512			3420			5308			7073			10171			15129		
840	x	536	1334			1790			2572			3502			5437			7244			10417			15495		
860	x	549	1365			1832			2633			3585			5565			7416			10663			15861		
880	x	562	1396			1874			2693			3667			5694			7587			10909			16226		
900	x	574	1427			1916			2754			3749			5823			7759			11155			16592		
920	x	587	1458			1958			2814			3832			5951			7931			11401			16958		
940	x	600	1489			2000			2874			3914			6080			8102			11647			17323		
960	x	613	1520			2042			2935			3997			6208			8274			11893			17689		
980	x	626	1551			2084			2995			4079			6337			8445			12139			18054		
1000	x	638	1582			2126			3056			4161			6466			8617			12385			18420		
1020	x	651	1613			2168			3116			4244			6594			8788			12631			18786		
1040	x	664	1644			2210			3177			4326			6723			8960			12877			19151		
1060	x	677	1675			2252			3237			4409			6851			9131			13123			19517		
1080	x	689	1706			2294			3298			4491			6980			9303			13369			19883		
1100	x	702	1737			2336			3358			4573			7109			9474			13615			20248		
1120	x	715	1768			2378			3419			4656			7237			9646			13861			20614		
1140	x	728	1799			2420			3479			4738			7366			9817			14107			20980		
1160	x	740	1831			2462			3539			4821			7495			9989			14353			21345		
1180	x	753	1862			2504			3600			4903			7623			10160			14599			21711		
1200	x	766	1893			2545			3660			4985			7752			10332			14845			22076		
1220	x	779	1924			2587			3721			5068			7880			10503			15091			22442		
1240	x	791	1955			2629			3781			5150			8009			10675			15337			22808		
1260	x	804	1986			2671			3842			5233			8138			10846			15583			23173		
1280	x	817	2017			2713			3902			5315			8266			11018			15829			23539		
1300	x	830	2048			2755			3963			5398			8395			11190			16075			23905		
1320	x	843	2079			2797			4023			5480			8524			11361			16321			24270		
1340	x	855	2110			2839			4084			5562			8652			11533			16567			24636		
1360	x	868	2141			2881			4144			5645			8781			11704			16813			25001		
1380	x	881	2172			2923			4205			5727			8909			11876			17059			25367		
1400	x	894	2203			2965			4265			5810			9038			12047			17305			25733		
1420	x	906	2234			3007			4325			5892			9167			12219			17551			26098		
1440	x	919	2265			3049			4386			5974			9295			12390			17797			26464		
1460	x	932	2296			3091			4446			6057			9424			12562			18043			26830		
1480	x	945	2327			3133			4507			6139			9552			12733			18289			27195		
1500	x	957	2358			3175			4567			6222			9681			12905			18535			27561		

Evetar C-mount Lens equations for VE Series WVGA

H = horizontal FOV size, W = working distance



6mm Megapixel lens

Banner model: LCF06LEVMP (p/n 97345)

Evetar model: MV118FM06C

1/1.8-inch format, 34 mm filter, min f/1.6, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.645 × W – 19.947 (minimum W ~ 83 mm)

W(H), mm

W = (H + 19.947)/0.645 (minimum H ~ 34 mm)



8mm Megapixel lens

Banner model: LCF08LEVMP (p/n 97346)

Evetar model: MV118FM08C

1/1.8-inch format, 27 mm filter, min f/1.4, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.477 × W – 13.42 (minimum W ~ 89 mm)

W(H), mm

W = (H + 13.42)/0.477 (minimum H ~ 29 mm)



12mm Megapixel lens

Banner model: LCF12LEVMP (p/n 97347)

Evetar model: MV23FM12C

2/3-inch format, 27 mm filter, min f/1.6, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.331 × W – 10.86 (minimum W ~ 121 mm)

W(H), mm

W = (H + 10.86)/0.331 (minimum H ~ 30 mm)



16mm Megapixel lens

Banner model: LCF16LEVMP (p/n 97348)

Evetar model: MV23FM16CR1

2/3-inch format, 27 mm filter, min f/1.6, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.243 × W – 9.98 (minimum W ~ 169 mm)

W(H), mm

W = (H + 9.98)/0.243 (minimum H ~ 31 mm)



25mm Megapixel lens

Banner model: LCF25LEVMP (p/n 97349)

Evetar model: MV23FM25C

2/3-inch format, 27 mm filter, min f/1.8, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.156 × W – 5.41 (minimum W ~ 324 mm)

W(H), mm

W = (H + 5.41)/0.156 (minimum H ~ 45 mm)



35mm Megapixel lens

Banner model: LCF35LEVMP (p/n 97350)

Evetar model: MV23FM35C

2/3-inch format, 27 mm filter, min f/2.0, fits with either the VELC60 or VELC85 lens cover

H(W), mm

H = 0.117 × W – 4.7 (minimum W ~ 350 mm)

W(H), mm

W = (H + 4.7)/0.117 (minimum H ~ 36 mm)



50mm Megapixel lens

Banner model: LCF50LEVMP (p/n 97351)

Evetar model: MV23FM50C

2/3-inch format, 30.5 mm filter, min f/2.6, fits with VELC85 lens cover

H(W), mm

H = 0.081 × W – 6.88 (minimum W ~ 345 mm)

W(H), mm

W = (H + 6.88)/0.081 (minimum H ~ 21 mm)



75mm Megapixel lens

Banner model: LCF75LEVMP (p/n 97352)

Evetar model: MV11FM75C

1-inch format, 34 mm filter, min f/2.8, does not fit with a sealed lens cover

H(W), mm

H = 0.055 × W – 7.58 (minimum W ~ 613 mm)

W(H), mm

W = (H + 7.58)/0.055 (minimum H ~ 26 mm)